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DNA polymerase, JDF-3 DNA polymerase, PGB-D DNA polymerase and DP1/DP2 DNA polymerase.

- 50. (New) A kit for DNA synthesis comprising a mutant DNA polymerase which comprises a reduced DNA polymerization activity and packaging material therefore.
- 51. (New) A kit for DNA synthesis comprising a mutant DNA polymerase which comprises a 3'-5' exonuclease activity and a reduced DNA polymerization activity and packaging material therefore.
- 52. (New) The kit of claim 50 or 51, wherein said mutant DNA polymerase comprises a mutation in the partitioning domain or the polymerase domain.
- 53. (New) The kit of claim 51, wherein said mutant DNA polymerase is a mutant Pfu DNA polymerase.
- 54. (New) The kit of claim 53, wherein said mutant Pfu DNA polymerase comprises one or more mutations at amino acid positions selected from the group consisting of: D405, Y410, T542, D543, K593, Y595, Y385, G387, and G388.
 - 55. (New) The kit of claim 54, wherein said mutant Pfu DNA polymerase comprises one or more mutations selected from the group consisting of: D405E, Y410F, T542P, D543G, K593T, Y595S, Y385Q, Y385S, Y385N, Y385L, Y385H, G387S, G387P, and G388P.
 - 56. (New) The kit of claim 51, wherein said mutant DNA polymerase is derived from the group consisting of: UlTma DNA polymerase, Tli DNA polymerase, KOD DNA polymerase, JDF-3 DNA polymerase, PGB-D DNA polymerase and DP1/DP2 DNA polymerase.

REMARKS

Upon entry of this amendment, claims 1-56 are pending. No new matter is introduced by this amendment. Support for the newly added claims may be found throughout the specification and at least at pages 19-34 and pages 52-61.

CONCLUSION

Applicant(s) submit(s) that all claims are allowable as written and respectfully request(s) early favorable action by the Examiner. If the Examiner believes that a telephone conversation

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with Applicant(s') attorney/agent would expedite prosecution of this application, the Examiner is cordially invited to call the undersigned attorney/agent of record.

Respectfully submitted,

Date: June 20, 2002

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